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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Kenji Yamanishi, et al **Docket:** 13931

Serial No.: unassigned **Dated:** September 29, 2000

Filed: herewith

For: DEGREE OF OUTLIER CALCULATION DEVICE, AND PROBABILITY DENSITY ESTIMATION DEVICE AND FORGETFUL HISTOGRAM CALCULATION DEVICE FOR USE THEREIN

Assistant Commissioner for Patents
Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with 37 C.F.R. §§ 1.97 and 1.98, it is requested that the following references, which are also listed on the attached Form PTO-1449, be made of record in the above-identified case.

1. Publication "Combining Data Mining and Machine Learning for Effective Fraud Detection",

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CERTIFICATE OF MAILING BY "EXPRESS MAIL"

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I hereby certify that this correspondence is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. §1.10 on the date indicated above and is addressed to the Assistant Commissioner of Patents and Trademarks, Washington, D.C. 20231.

Dated: September 29, 2000

Michelle Mustafa

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Proceedings of AI Approaches to Fraud Detection and Risk Mangement, by Tom Fawcell and Foster Provost, pp. 14-19, 1997.

2. "Intrusion Detection with Neural Networks" by J. Ryan, M. Lin and R. Miikkulainen, Proceedings of AI Approaches to Fraud Detection and Risk Management, pp. 72-77, 1997.

3. "Detecting Cellular Fraud Using Adaptive Prototypes", by P.Burge and J.Shawe-Taylor, Proceedings of AI Approaches to Fraud Detection and Risk Management, pp. 9-13, 1997.

4. "Maximum Likelihood from Incomplete Data via the *EM* Algorithm", by A.P. Dempster, N.M. Laird and D.B. Ribin, Journal of the Royal Statistical Society, B. 39(1), pp. 1-38, 1977.

5. "Self-Organization of Neurons Described by the Maximum-Entropy Principle" by I. Grabec, from Biological Cybernetics, Vol. 63, pp. 403-409, 1990.

Applicant is submitting copies of the above-cited references. The relevance of the above-identified references has been described in the specification.

Inasmuch as this Information Disclosure Statement is being submitted in accordance with the schedule set out in 37 C.F.R. § 1.97(b), no petition, certification or fee is required. Consideration of this Information Disclosure Statement is respectfully requested.

Respectfully submitted,

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